Table 3-3 - Oil Spill Modeling Scenario Information

Facility	Shore Terminals – Martinez
Product:	Group 3 oil (Crude Oil)
Quantity	5,830 bbls
Source Location:	Rupture of line at dock Considering: Line pumping rate (20,000 bph) Time for discovery, and S/D (30 min.)
Seasonal Considerations:	Scenario during both summer and winter conditions

In each scenario, the spill was considered to be instantaneous discharge at the identified location. The model calculation time step was 10 minutes, with a dispersion factor of 1.5 m ^{2} / sec. This was considered to provide model simulation for the surface conditions and environmental constraints for the area. The simulations were run until the oil was fully dissipated from either evaporation, dissolution, or grounded on-shore over a period of 72 hours (3 days.)

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3.4.4 Environmental Data

Hydrodynamic

Tidal current and river induced flows, providing input to OILMAP for San Pablo Bay, were derived from a three- dimensional, depth contoured, finite element hydrodynamic model of San Francisco Bay (ASA et al., 1998). The model generates equations for water motion predicted from the charted depth gradients and forcing conditions.